Barranca Larga — dedicated to their local history. Korstanje took on an advisory role and attempted to pursue a collaborative and socially responsible museumbuilding project that could serve as a model for putting the tenets of community-based archaeology into practice. At first, the community was under the impression that she, along with the other archaeologists, would choose what material was presented in the museum and the general aesthetic design.

This was not the case.

After the archaeologists made it clear that they were interested in how the community wanted to present their past, locals slowly began making the choices concerning the content of the museum. Their collaborative relationship blossomed. Community members made scale models of living spaces, put together central hearths of households, documented their oral history and heritage, asked for help in building a community library, and made paths in the town to show visitors different parts of the landscape. One member even wanted to grow wild plants to showcase their traditional medicinal uses.

Overall, Korstanje asserts that the pros of working closely with indigenous communities far outweigh the cons. "Heritage needs to find alternative models or ways

of thinking that accept the fluidity of identity-building as an inspiration for practice rather than a source of anxiety," she said. For Korstanje, the role of the museum is to focus on assisting local people with getting in touch with their own history, traditions, and values.

Korstanje concluded her presentation by maintaining that her story is about how practice, local societies, and landscapes impact and modify researchers. By opening herself to the information and contributions offered by local communities, Korstanje was able to help build a museum that had meaning and purpose beyond what she had imagined. Her work in Argentina serves as an excellent case study for ethically driven work in the field of archaeology.

Alejandra Korstanje is a professor at the Universidad de Tucumán in Argentina and director of the Instituto de Arqueología y Museo in the Universidad Nacional de Tucumán. CLAS, the Anthropology Department, and the Archaeological Research Facility of UC Berkeley sponsored her talk on April 20, 2015.

Katherine Chiou is a Ph.D. candidate in Anthropology at UC Berkeley.

Local women performing a traditional dance at the Museo Rural Communitario Barranca Larga, El Bolsón, Argentina.





MEXICO

City on a Lake, Running Dry

By Ignacio Camacho and Femke Oldham

"The sewer is the conscience of the city." -Victor Hugo, "Les Miserables"

f Mexico City's sewer reflects its conscience, then on an island in a large lake, which was linked to the citizens of the mega-metropolis have little ground for mainland through four causeways. The Spanish decided pride. The award-winning documentary "H2Omx" to continue developing the capital of their new colony in uses powerful imagery to tell the story of Mexico City's the same location, ultimately by draining the lake but fraught water system. Green pipes snaking through without taking precautions to manage the water as the the nation's capital and delivering water to millions of Aztecs had done for nearly two centuries. Slowly, canals people but failing to reach those living in impoverished were turned into streets, and rivers became part of the localities. Post-apocalyptic scenes of trash clogging major city's sewer system. river systems and toxic foam from chemical detergents Building a city atop a lakebed may seem like a recipe for disaster, and it is. Especially when that city exploits its floating through the air like snow, silently poisoning entire underground water reservoirs. In this regard, centuries of communities. Thousands of acres of land irrigated with over-pumping have led to the sinking of the downtown aguas negras — black waters flowing from Mexico City's area — which sits 10 meters lower than when it was sewers — destined to crops for human consumption. "H2Omx" depicts natural resource destruction on a built. This sinking, in conjunction with the geography of the city (which does not have natural exits for water scale so large that it threatens not only the livelihoods of inflows), significantly increases susceptibility to flooding. millions of people, but also the identity of the city itself.

Old map of Tenochtitlán showing Lake Texcoco surrounding the city.

Built over a lake, Mexico City "should not even be there," we are told. When the Spanish arrived to what was then Tenochtitlán, they found a vibrant city built



Massive pipes of the Cutzamala System, supplying water to Mexico City.

Despite billions of dollars invested in infrastructure, the city floods every year, taking a major toll on economic activity, damaging property, causing substantial public and health problems. Despite frequent downpours, only 8 percent of annual rainfall recharges underground reservoirs, leading scientists to predict that this dangerous imbalance will likely leave the city dry in only eight to ten years.

In response to scarcity, a large proportion of the water consumed in Mexico City is imported from other states though the massive Cutzamala System. The water in the system flows through seven dams and hundreds of miles of pipes,

tunnels, and open canals, providing short-term relief to Mexico City's underground reservoirs but leaving communities outside the city without water. Imports, moreover, are not nearly enough to cover demand, and 40 percent of the water imported from outside the city is lost through leaky pipes.

"H2Omx" makes it painfully clear through individual stories that thousands of families in Mexico City's marginal communities still have no access to water. People from these communities are forced to walk long distances to find enough of this vital resource to satisfy their most basic needs. Nonetheless, the movie pushes viewers to see these forgotten populations as areas of opportunity. For example, a project called Isla Urbana has developed a simple technology to gather rainwater from rooftops, which can provide enough water to satisfy the needs of small communities for months.

A final point raised by the film is the discharge of contaminated water. "H2Omx" explains that only 7 percent of sewage water is treated, while the rest leaves the metropolis full of dangerous contaminants. Farmers in the Mexican state of Hidalgo then use this water to grow grains and vegetables that are sent back to Mexico City to fill the plates of urban diners in what farmers call a form of "just revenge."

After the screening of "H2Omx," UC Berkeley professors Ivonne del Valle and Isha Ray discussed their impressions of the film. Isha Ray, also Co-Director of the Berkeley Water Center, mentioned that the central issue of the movie is inequality, because not all citizens experience the impacts of a failing water system. Whereas millions of Mexicans have access to clean water in their homes every day, millions more have barely enough to drink, let alone to wash and cook. Others live alongside a massive canal carrying aguas negras and experience negative health impacts because of it.

Ray also noted the profound connection between food and water. It is common in metropolitan areas for sewage water to be sent to farms and used to irrigate produce that is then trucked back into the city to feed its citizens. However, the people who are really suffering from this arrangement are not the unsuspecting diners in the city, but rather the farmers who work in fields where levels of heavy metals are off the charts. These agricultural workers are experiencing cancer and

infectious diseases at higher and deadlier rates than the raised potential solutions to Mexico's water woes. Isha Ray explained that despite difficulties with financing, decentralized solutions such as water treatment plants and Ivonne del Valle, who specializes in Colonial Mexico, rainwater harvesting projects do work to improve health and well-being of communities in Mexico and other parts of the world. However, Ray warned that to adequately address challenges as great as those faced by Mexico City, radical policy change is needed. Through its stunning and occasionally heart-breaking visuals and lively narrative flow, "H2Omx" acts as a powerful catalyst for change in Mexico City's water system and beyond.

people in the city who are becoming temporarily ill from eating contaminated produce. explained that Mexico City's water troubles date back to Hernán Cortés, who decided he wanted to build a city on a lake, despite the best efforts of his men to warn him against it. She also mentioned that the first war between the Spaniards and the indigenous groups of the Valley of Mexico was over water. She compared historical battles over resources to the war that rages on today between humans and nature.

Isha Ray is Associate Professor with the Energy and Resources Professor del Valle also emphasized her disagreement Group and Co-Director of the Berkeley Water Center with the law currently under discussion in the Mexican at UC Berkeley. Ivonne del Valle is Associate Professor at Congress, the "Nueva Ley General de Aguas" (New General UC Berkeley's Department of Spanish & Portuguese. They Water Law), which essentially privatizes water in the spoke for CLAS on April 9, 2015, following a showing of the country. The main problem with this law is that it would documentary "H2Omx," winner of the 2014 Margaret Mead encourage industrial waste and fracking practices, which Filmmaker Award. are not properly regulated. Del Valle also mentioned that the student group "Agua Para Todos" (Water for Everyone) Femke Oldham and Ignacio Camacho both hold Master of is fighting against the new law. Public Policy degrees from the Goldman School of Public The event was not all doom and gloom, however. A Policy at UC Berkeley.

final point made during the question and answer session

A screen shot from "H2Omx" shows a man leading his donkey to fetch water on the outskirts of Mexico City.

